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WATER SUPPLY OUTLOOK FOR OREGON



U.S. DEPT. OF AGRICULTURE

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY and STATE ENGINEER
of OREGON

Data included in this report were obtained by the agencies named above in cooperation
with Federal, State and private organizations listed inside the back cover of this report.

AS OF
FEB. 1, 1975

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Cover Photo: Cabins near Sacajawea Snow Course in Bridger Mountains, Montana.

SCS PHOTO 11-1480-15

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR OREGON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

FEBRUARY 8, 1975

Issued by

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|||||

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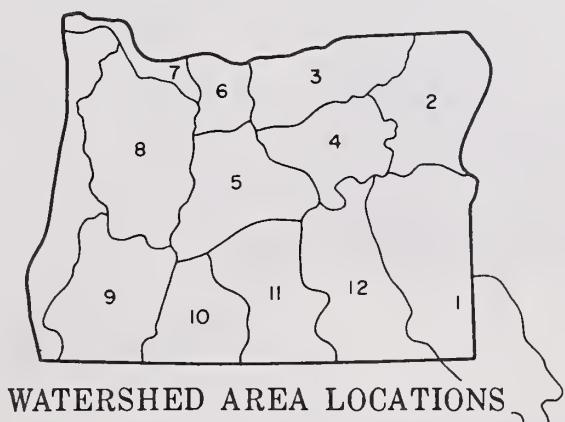
TOMMY A. GEORGE, Snow Survey Supervisor
and

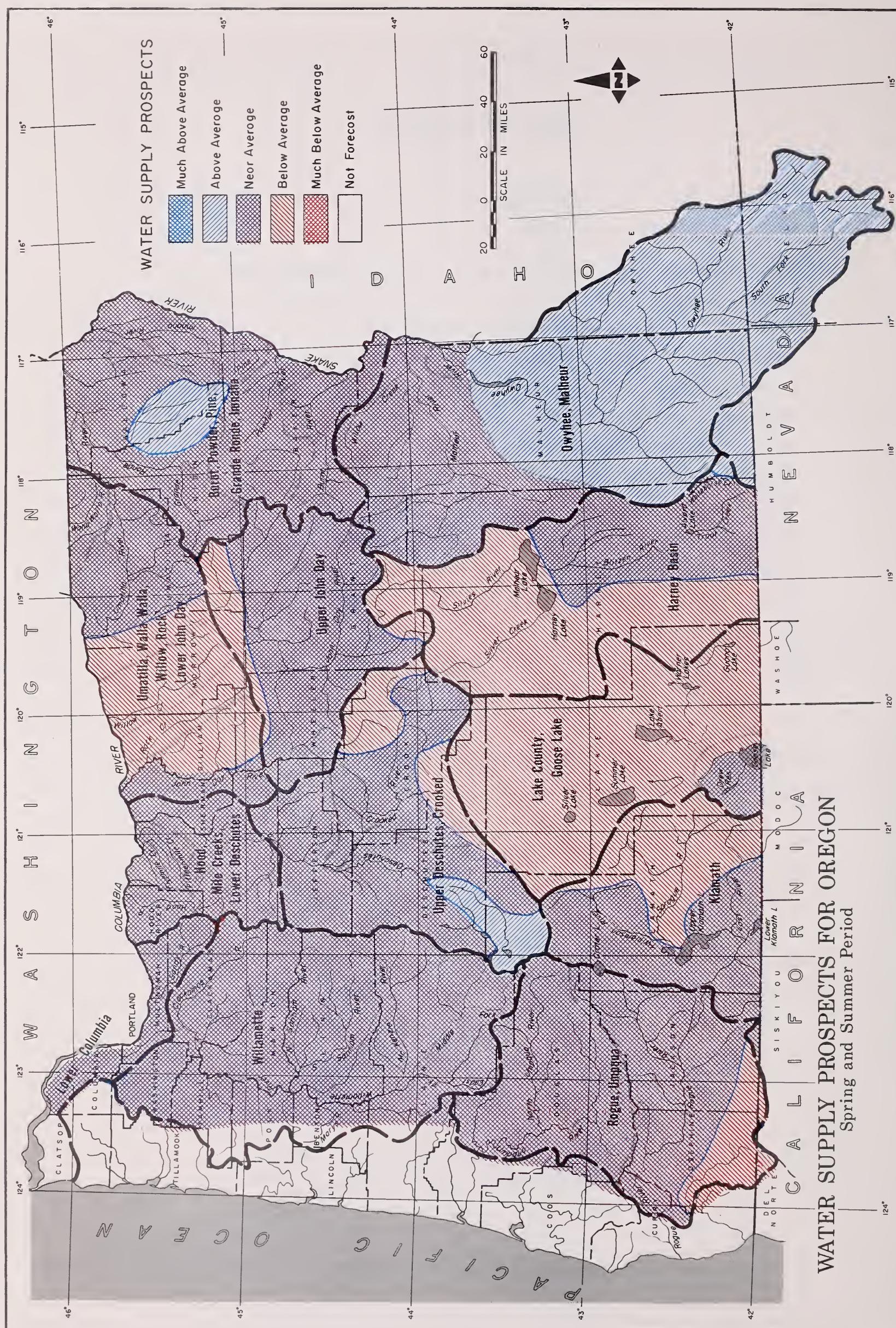
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WATER SUPPLY OUTLOOK for OREGON

FEBRUARY 1, 1975

Near average water supplies are in store for most of Oregon this next summer. The mountain snow-pack is average to above average in most locations. Precipitation from September to date has been lower than normal. Reservoir storage is good, however, and the overall water supply picture looks good.

SNOW COVER

The snowpack is 90-95% of average on the Willamette, Hood, John Day, and Crooked River Watersheds. Most other watersheds range from 100% on the Klamath on up to 150% on the Owyhee. The lowest amounts of snow were measured in Lake County at 75% and on the Clackamas River at 60% of average.

PRECIPITATION

The precipitation pattern for the November-January winter period ranges from near 50% of normal for Lake County up to 100% on the Willamette, Hood River, and Grande Ronde drainages. The Umatilla Basin has received 120% of average amounts for this same period. Much of this fell as rain during January and some flooding occurred from the rainfall and rain on snow melt.

SOIL MOISTURE

Rainfall during the fall months was only 15 to 30% of average and as a result, soils were very dry when the snowpack started to accumulate. Soils are still dry and will absorb some of the snow melt which normally would contribute to runoff.

RESERVOIR STORAGE

Most of the major irrigation reservoirs are storing more than average amounts for this time of year. Twenty-three reservoirs were storing 1,934,200 acre feet on February 1. This is 110% of average.

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STREAM FLOW

Streamflow for the water year which starts in October has been mostly below normal. Streams which have more than normal contributions from springs and ground water have been near average. This is a result of last year's heavy snowpack.

January streamflow was generally better around the state due to the increase in precipitation.

Forecasts of streamflow in Oregon for this summer range generally from 80% to 115%.

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.



WATER SUPPLY OUTLOOK
OWYHEE, MALHEUR WATERSHEDS
OREGON

as of

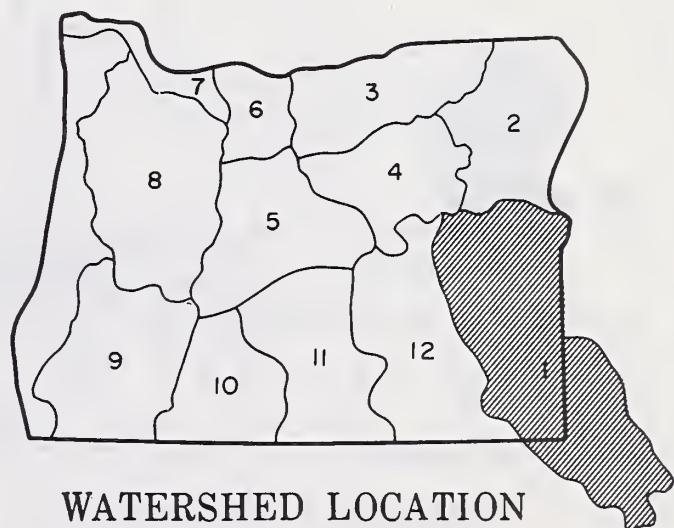
FEBRUARY 1, 1975

GENERAL OUTLOOK

THE WATER SUPPLY VARIES FROM NEAR AVERAGE IN THE MALHEUR WATERSHED TO EXCELLENT IN THE Owyhee. THE SNOWPACK IS MUCH ABOVE NORMAL IN THE UPPER PORTIONS OF THE Owyhee AND NEAR AVERAGE THROUGHOUT THE REST OF THE BASIN. PRECIPITATION FOR THE WINTER PERIOD, NOVEMBER THROUGH JANUARY WAS ONLY 75% OF NORMAL AND AS A RESULT, THE SOIL MOISTURE IS MUCH BELOW AVERAGE. RESERVOIR STORAGE IS ABOVE AVERAGE AND STREAMFLOW FORECASTS VARY FROM BELOW AVERAGE ON THE MALHEUR TO ABOVE AVERAGE ON THE Owyhee.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek	Avg.	Avg.
Bully Creek	Avg.	Avg.
Cow Creek	Avg.	Avg.
Jordan Creek	Avg.	Avg.
Jordan Valley Irrig. Dist.	Avg.	Avg.
McDermitt Creek	Avg.	Avg.
Oregon Canyon Creek	Avg.	Avg.
Owyhee Project	Exc.	Exc.
Succor Creek	Avg.	Avg.
Tenmile Creek	Avg.	Avg.
Vale-Oregon Irrig. Dist.	Avg.	Avg.
Warmsprings Irrig. Dist.	Avg.	Avg.
Willow Creek (Reservoired)	Avg.	Avg.



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
 OREGON STATE UNIVERSITY OREGON STATE ENGINEER

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Bully Creek at Warmsprings	14.6	108	Mar-May	13.5 ^m	
Malheur near Drewsey	88	80	Feb.-July	110	
	62	86	Apr.-Sept.	72	
Malheur, North Fork at Beulah ^d	66	82	Feb.-July	81	
	56	88	Apr.-Sept.	64	
Owyhee Reservoir net Inflow ^m	585	115	Feb.-July	804	510
	400	120	Apr.-Sept.	408	332

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	1000	June 7	May 24
	250	June 21	June 20

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Antelope	70.0	b	11.0	8.9 ^m
Beulah Reservoir	60.0	26.1	41.2	24.8
Bully Creek	30.0	11.5	21.7	15.0 ^m
Owyhee	715.0	432.7	509.8	407.9
Warmsprings	191.0	121.2	72.2	80.3

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
Malheur River	2	69	80
Owyhee River	3	75	70

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Jordan Creek	3	72	101
Malheur River	5	78	105
Owyhee River	5	92	148

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
BURNT, POWDER, PINE, GRANDE RONDE,
IMNAHA WATERSHEDS
OREGON

as of

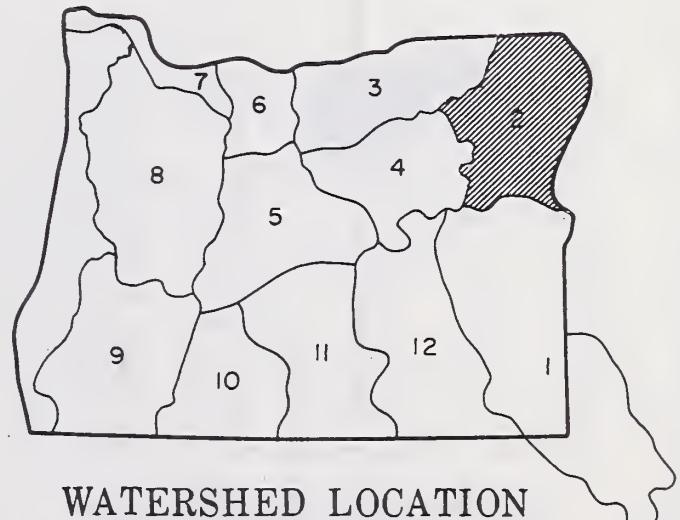
FEBRUARY 1, 1975

GENERAL OUTLOOK

NEAR AVERAGE WATER SUPPLIES ARE FORECAST FOR NORTHEASTERN OREGON. THE SNOWPACK AND RESERVOIR STORAGE ARE GENERALLY NEAR NORMAL THROUGHOUT THE AREA. ALTHOUGH MOST OF THE WATERSHEDS EXPERIENCED NORMAL AMOUNTS OF PRECIPITATION FOR THE WINTER MONTHS, JANUARY FLOWS IN THE GRANDE RONDE WERE ONLY 83% OF AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope	Avg.	Avg.
Baker Valley	Avg.	Avg.
Big Creek	Avg.	Avg.
Clover Cr. (nr. N. Powder)	Avg.	Avg.
Cove	Avg.	Avg.
Durkee	Avg.	Avg.
Eagle Valley	Avg.	Avg.
Elgin	Avg.	Avg.
Enterprise-Joseph	Avg.	Avg.
Hereford-Bridgeport	Avg.	Avg.
Imnaha River	Avg.	Avg.
LaGrande-Island City	Avg.	Avg.
Lostine-Wallowa	Avg.	Avg.
No. Powder River-Wolf Creek	Avg.	Avg.
Pine Valley	Avg.	Avg.
Powder River-Elk Creek	Avg.	Avg.
Summerville	Avg.	Avg.
Sumpter Valley	Avg.	Avg.
Union-Hot Lake	Avg.	Avg.
Unity	Avg.	Avg.



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
 OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORCAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Bear near Wallowa	73	111	Apr.-Sept.	66	
Burnt near Hereford ^d	41	85	Feb.-July	48	
	30	90	Apr.-Sept.	33	
Catherine near Union	76	118	Apr.-Sept.	65	
Eagle Creek abv. Skull Creek	157	90	Apr.-July	175	
	172	91	Apr.-Sept.	190	
Grande Ronde at La Grande	201	102	Mar.-Sept. ^j	197	
	178	113	Apr.-Sept.	158	
Hurricane near Joseph	46	98	Apr.-Sept.	47	
Imnaha at Imnaha	267	87	Apr.-Sept.	307	
Lostine near Lostine	122	98	Apr.-Sept.	125	
Powder near Sumpter	48	88	Apr.-July	55	
	49	88	Apr.-Sept.	56	
Wallowa, East Fork near Joseph ^d	12.7	99	Feb.-Sept.	12.8	
	11.3	99	Apr.-Sept.	11.4	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Phillips Lake	73.5	53.4	29.9	--
Thief Valley	17.4	17.4	17.4	16.4 ^m
Unity	25.2	12.2	16.3	10.7
Wallowa Lake	37.5	25.4	14.3	21.2

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Burnt River	4	62	105
Grande Ronde River above La Grande	4	75	116
Powder River	5	63	98
Wallowa, Imnaha, Catherine Creek	6	65	101

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF	
		Last Year	Average i
Burnt, Powder Grande Ronde, Catherine Creek, Imnaha River	1	55	65
	3	85	102

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

as of

FEBRUARY 1, 1975

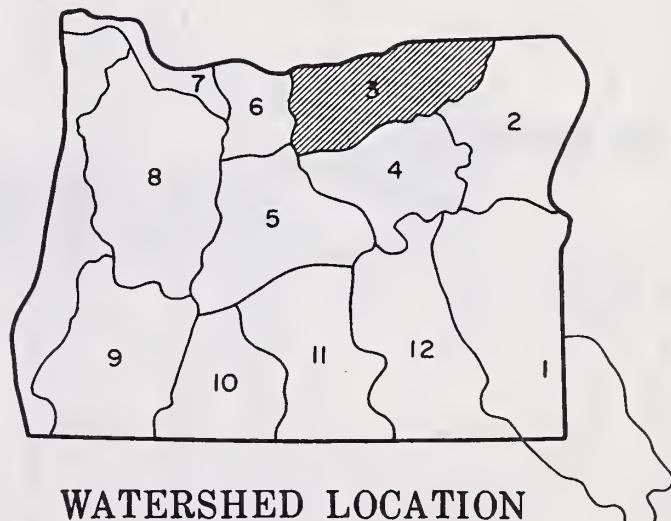
GENERAL OUTLOOK

AVERAGE WATER SUPPLIES ARE FORECAST FOR THE UMATILLA AND WALLA WALLA WATERSHEDS AND BELOW AVERAGE FOR BUTTER, WILLOW AND ROCK CREEK WATERSHEDS. THE MOUNTAIN SNOWPACK REMAINS ABOVE AVERAGE IN MOST AREAS EXCEPT FOR ARBUCKLE MOUNTAIN AND SOIL MOISTURE IS NEAR NORMAL. HEAVY JANUARY RAINFALL RESULTED IN FLOODING IN MANY AREAS OF THE UMATILLA BASIN.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, No. Fork	Avg.	Avg.
Walla Walla River, So. Fork	Avg.	Avg.
Walla Walla River, Main	Avg.	Avg.
Walla Walla River, Little	Avg.	Avg.
Couse Creek	Avg.	Avg.
Dry Creek	Avg.	Avg.
Pine Creek	Avg.	Avg.
Umatilla River, Main	Avg.	Avg.
Wildhorse Creek	Avg.	Avg.
Umatilla R. (Cold Springs Reservoir)	Avg.	Avg.
Umatilla R. (McKay Res.)	Avg.	Avg.
McKay Creek	Avg.	Avg.
Birch Creek	Fair	Fair
Butter Creek	Fair	Fair
Willow Creek	Fair	Fair
Rhea Creek	Fair	Fair
Rock Creek (John Day Tributary)	Fair	Fair
	Avg.	Avg.



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year
Birch Creek at Rieth	28	100	Feb.-July	28
	17	107	Apr.-Sept.	15.9
Butter Creek near Pine City	8.8	77	Mar.-July	11.4
McKay near Pilot Rock	25	104	Apr.-Sept.	24
Umatilla near Gibbon	102	105	Mar.-Sept.	97
	78	104	Apr.-Sept.	75
Umatilla at Pendleton	209	104	Mar.-Sept.	200
	79	100	Mar.-Sept.	79
Walla Walla, South Fork near Milton	66	100	Apr.-Sept.	66

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton	550	May 27	May 22

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average
Cold Springs	,50.0	26.2	30.8	31.2
McKay	73.8	43.1	51.6	31.0

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average
Umatilla, Walla Walla, McKay Creek	3	100	106

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
McKay Creek	3	79	103
Umatilla River	3	63	119
Walla Walla River	2	53	108

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

UPPER JOHN DAY WATERSHEDS

OREGON

as of

FEBRUARY 1, 1975

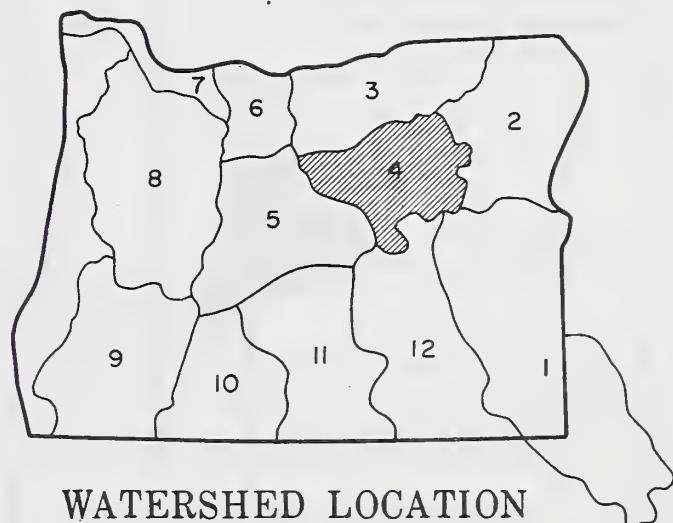
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE UPPER JOHN DAY WATERSHED VARIES FROM BELOW AVERAGE IN THE NORTHERN PORTION TO ABOVE AVERAGE IN THE SOUTH. THE CURRENT SNOWPACK IS SLIGHTLY BELOW NORMAL, AND THE WINTER PRECIPITATION HAS BEEN ONLY 87% OF AVERAGE. THE SOIL MOISTURE IS STILL BELOW NORMAL IN MOST AREAS.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek	Avg.	Avg.
Beech Creek-Fox-Long Cr.	Avg.	Avg.
Bridge-Mountain Creeks	Avg.	Avg.
Camas Creek	Fair	Fair
Cherry Creek	Avg.	Avg.
Indian-Pine Creeks	Avg.	Avg.
John Day River, Main Fork	Avg.	Avg.
John Day River, Mid. Fork	Avg.	Avg.
John Day River, N. Fork	Avg.	Avg.
John Day River, S. Fork	Avg.	Avg.
Monument-Kimberly	Avg.	Avg.
Strawberry Creek	Avg.	Avg.



WATERSHED LOCATION

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Camas Creek near Ukiah	35	82	Mar.-July		43
	29	88	Apr.-Sept.		33
John Day, Middle Fork at Ritter	136	105	Mar.-July		129
	115	106	Apr.-Sept.		108
John Day, North Fork at Monument	580	90	Mar.-July		646
	486	90	Apr.-Sept.		540
Strawberry near Prairie City	7.9	110	Mar.-July		7.2
	8.0	106	Apr.-Sept.		7.6

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
John Day above Dayville	4	55	67
John Day, North Fork	1	100	109

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
John Day, North Fork	7	66	94
John Day abv. Dayville	5	69	99

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

UPPER DESCHUTES, CROOKED WATERSHEDS
OREGON*as of*

FEBRUARY 1, 1975

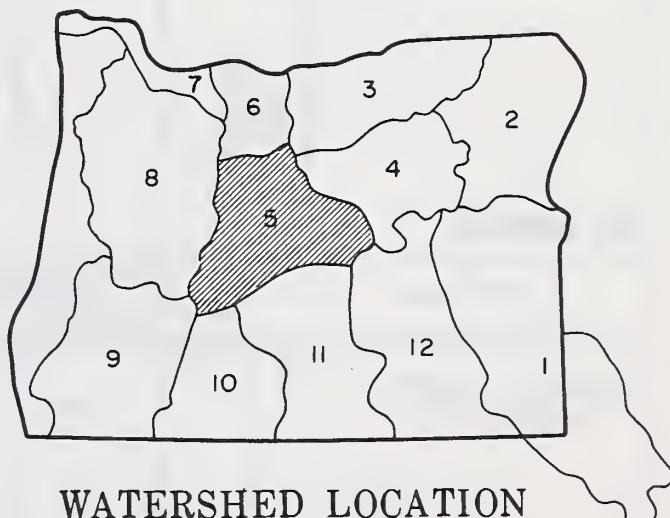
GENERAL OUTLOOK

WATER SUPPLIES WILL BE BELOW AVERAGE FOR DIVERTED WATER FROM THE CROOKED RIVER WATERSHEDS AND NORMAL TO ABOVE AVERAGE ON THE UPPER DESCHUTES WATERSHEDS AND STORED WATER ON PRINEVILLE AND OCHOCO RESERVOIRS. THE SNOWPACK IS GENERALLY ABOVE AVERAGE EXCEPT FOR THE CROOKED AND OCHOCO DRAINAGES. PRECIPITATION FOR THE WINTER MONTHS HAS BEEN ONLY 68% OF NORMAL. THE SOIL MOISTURE REMAINS LOW BUT THE FIVE PRINCIPAL DESCHUTES RESERVOIRS ARE STORING MORE THAN NORMAL AMOUNTS OF WATER FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation Dist.	Avg.	Avg.
Bear Creek	Fair	Fair
Beaver Creek	Fair	Fair
Camp Creek	Fair	Fair
Central Ore. Irrig. Dist.	Avg.	Avg.
Crooked River	Fair	Fair
Deschutes River	Avg.	Avg.
Hay-Trout Creeks	Avg.	Avg.
Lone Pine Irrig. Dist.	Avg.	Avg.
Mill Creek	Avg.	Avg.
North Unit Irrig. Dist.	Avg.	Avg.
Ochoco Creek	Fair	Fair
Sisters Irrigation Dist.	Avg.	Avg.
Snow Creek Irrig. Dist.	Avg.	Avg.
Squaw Creek Irrig. Dist.	Avg.	Avg.
Swalley Ditch	Avg.	Avg.
Tumalo Project	Avg.	Avg.
Walker Basin Irrig. Dist.	Avg.	Avg.



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
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PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Beaver Creek near Paulina	31	75	Feb.-July	41	
	12.1	76	Apr.-Sept.	16.0	
Crane Prairie Reservoir total Inflow	126	106	Apr.-Sept.	119	
Crescent at Crescent Lake ^d	24	114	Mar.-July	21	
	27	123	Apr.-Sept.	22	
Crooked near Post	138	80	Feb.-July	172	
	76	84	Apr.-Sept.	91	
Deschutes at Benham Falls ^d	388	108	Apr.-July	360	
	594	108	Apr.-Sept.	550	
Deschutes below Snow Creek	73	98	Feb.-Sept.	74	
	66	106	Apr.-Sept.	62	
Deschutes, Little near La Pine ^d	92	90	Feb.-July	102	
	96	97	Apr.-Sept.	99	
Ochoco Reservoir net Inflow	28	82	Feb.-July	34	
	15.0	80	Apr.-Sept.	18.8	
Odell near Crescent	34	120	Apr.-Sept.	28	
Squaw near Sisters	51	102	Apr.-Sept.	50	
Tumalo near Bend ^d	49	111	Apr.-Sept.	44	

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow	300	*	July 15
Crooked R. near Post	100	May 20	June 1
Deschutes at Bend	1500	*	July 1
Little Deschutes near La Pine	400	June 11	June 7
	200	July 6	July 8
*Issued on April 1.			

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Crane Prairie	55.3	57.8	37.5	42.1
Crescent Lake	86.9	86.1	75.9	45.9
Ochoco	47.5	22.1	31.1	21.2
Prineville	153.0	95.5	92.2	102.4 ^m
Wickiup	200.0	189.8	135.6	148.5

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
Crooked R., Upper Deschutes River	3	74	84

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Crooked, Ochoco	4	82	91
Deschutes abv. Wickiup	3	78	119
Little Deschutes	4	74	108
Tumalo & Squaw Crs.	3	72	111

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
HOOD, MILE CREEKS, LOWER DESCHUTES
WATERSHEDS
OREGON

as of

FEBRUARY 1, 1975

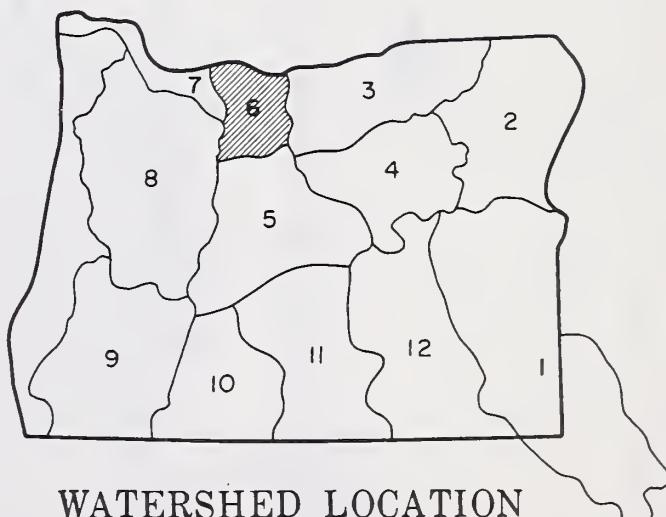
GENERAL OUTLOOK

NEAR AVERAGE WATER SUPPLIES ARE FORECAST FOR HOOD RIVER AND WASCO COUNTIES. JANUARY PRECIPITATION WAS 122% OF NORMAL INCREASING THE SNOWPACK TO NEAR NORMAL CONDITIONS. STORAGE IN CLEAR LAKE IS 4 TIMES THE NORMAL AMOUNT FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Aldridge Ditch (Tony Creek)	Avg.	Avg.
Badger Creek	Avg.	Avg.
Dee Irrigation Dist.	Avg.	Avg.
East Fork Irrig. Dist	Avg.	Avg.
Farmers Irrigation Dist.	Avg.	Avg.
Hood River Irrig. Dist	Avg.	Avg.
Juniper Flat	Avg.	Avg.
Middle Fork Irrig. Dist.	Avg.	Avg.
Mile Creeks	Avg.	Avg.
Mill Creek	Avg.	Avg.
Mount Hood Irrig. Dist.	Avg.	Avg.
Rock-Gate-Threemile Crs.	Avg.	Avg.
Tygh Creek	Avg.	Avg.
White River	Avg.	Avg.



WATERSHED LOCATION

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Hood River near Tucker Bridge	245	86	Apr.-July	286	
	297	90	Apr.-Sept.	332	
Hood, West Fork near Dee	122	92	Apr-July	132	
	147	96	Apr.-Sept.	154	
White below Tygh Valley	114	97	Apr.-July	118	
	134	101	Apr.-Sept.	133	

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow	*38	July 15	**39
*Average cfs forecast to flow for this two-week period.		July 31	
**Average cfs for period of record.			

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Clear Lake (Wasco)	11.9	9.0	3.5	2.2

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Hood River	6	56	92
Mile Creeks	-	--	--
White River	3	61	102

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

as of

FEBRUARY 1, 1975

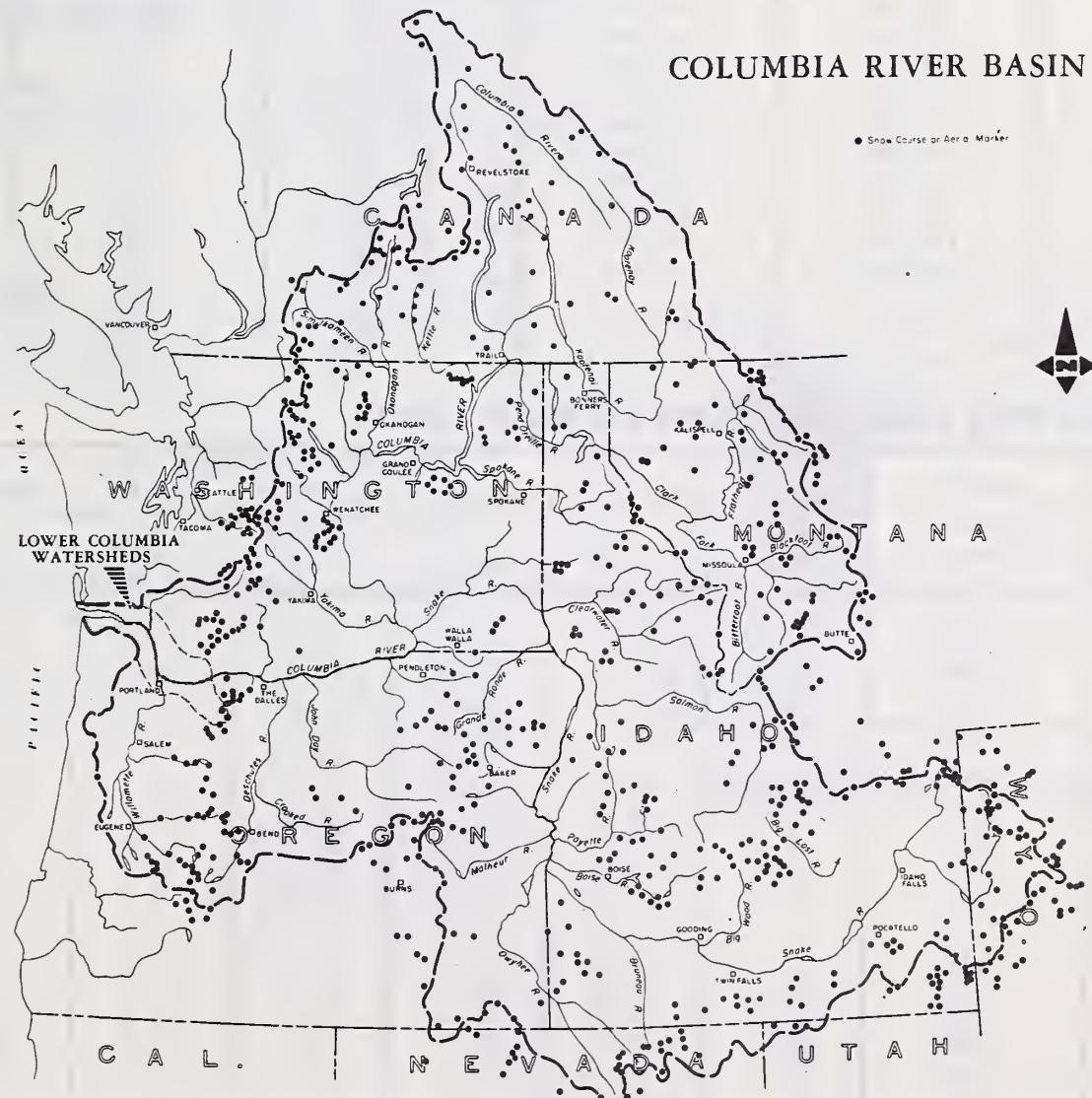
GENERAL OUTLOOK

SNOW ACCUMULATION AS OF FEBRUARY 1 HAS LEFT THE COLUMBIA BASIN WITH A SNOW PACK WHICH, WHEN CONSIDERED AS A WHOLE IS SLIGHTLY ABOVE AVERAGE. HOWEVER, IT VARIES FROM A LOW OF NEAR 1/2 OF AVERAGE ON IDAHO'S BIG AND LITTLE WOOD AND BIG AND LITTLE LOST RIVERS, TO NEAR 50% ABOVE AVERAGE ON THE Owyhee River AND ON BRITISH COLUMBIA'S OKANAGAN RIVER.

NEAR 3/4 OF THE USUAL PACK LIES ON WASHINGTON'S LEWIS RIVER AND ON HENRY'S FORK OF THE SNAKE RIVER IN S.E. IDAHO. ON MOST OTHER WATERSHEDS, THE SNOW IS WITHIN ABOUT 15% OF AVERAGE.

MOST MOUNTAIN SOILS AREA DRIER THAN NORMAL BECAUSE OF LOW PRECIPITATION RECEIVED DURING THE FALL MONTHS PRIOR TO THE START OF THE SNOWPACK.

THE JANUARY FLOW OF THE COLUMBIA AT THE DALLES WAS 88% OF AVERAGE.



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SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Sandy River	2	63	107

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average		Last Year
Columbia at The Dalles	67,000	92	Apr.-June	73,160
	98,500	94	Apr.-Sept.	104,426
Sandy River near Marmot	310	90	Apr.-July	342
	365	92	Apr.-Sept.	398

HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW ^d (1,000 A.F.)			REGULATED PEAK (1,000 cfs)	DATE
	APR - SEPT.	APR - JUNE	MAY - JUNE		
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1968	89,000	55,500	47,900	404	June 13
1969	112,300	85,700	63,800	515	May 15
1970	88,100	62,800	55,200	425	May 28
1971	122,900	88,400	73,700	557	May 13
1972	134,700	96,400	81,400	619	June 20
1958-72 Avg.	104,300	72,900	59,900	529	

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu)	FLOW AT THE DALLES (1,000 c.f.s.)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32 (1972)	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.

Area 8

WATER SUPPLY OUTLOOK

WILLAMETTE WATERSHEDS

OREGON

as of

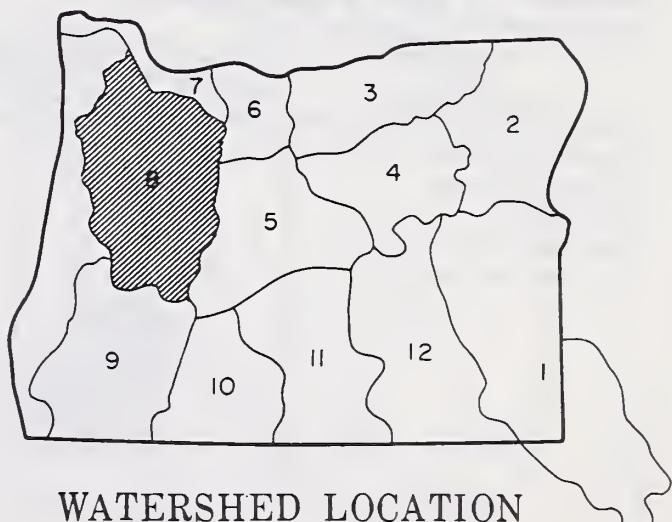
FEBRUARY 1, 1975

GENERAL OUTLOOK

AVERAGE WATER SUPPLY CONDITIONS WILL PREVAIL FOR MOST OF THE WILLAMETTE VALLEY DURING THE SPRING AND SUMMER MONTHS. THE SNOWPACK VARIES FROM 80% OF NORMAL IN THE CLACKAMAS WATERSHED TO 112% ON THE MIDDLE FORK OF THE WILLAMETTE. PRECIPITATION FOR THE WINTER MONTHS HAS BEEN NEAR AVERAGE. FLOOD STORAGE RESERVOIRS ARE BEING HELD AT THEIR USUAL LOW LEVEL FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya	Avg.	Avg.
Clackamas	Avg.	Avg.
McKenzie	Avg.	Avg.
Molalla	Avg.	Avg.
Santiam, North	Avg.	Avg.
Santiam, South	Avg.	Avg.
Willamette, Coast Fork	Avg.	Avg.
Willamette, Middle Fork	Avg.	Avg.



WATERSHED LOCATION

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OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
Clackamas at Estacada	622	92	Apr.-July		674
	730	93	Apr.-Sept.		789
Clackamas above Three Lynx	461	91	Apr.-July		506
	554	92	Apr.-Sept.		604
McKenzie at McKenzie Bridge	429	95	Apr.-July		453
	573	96	Apr.-Sept.		598
McKenzie near Vida	1,051	102	Apr.-July		1,035
	1,284	102	Apr.-Sept.		1,262
McKenzie, So. Fork near Rainbow	212	101	Apr.-July		210
	237	99	Apr.-Sept.		239
Oak Grove Fork above Power Intake	124	101	Apr.-July		123
	168	104	Apr.-Sept.		162
Row near Dorena	94	96	Apr.-July		98
	99	97	Apr.-Sept.		102
Santiam, North at Mehama ^d	685	90	Apr.-July		765
	797	91	Apr.-Sept.		872
Santiam, South at Waterloo	506	90	Apr.-July		564
	555	89	Apr.-Sept.		623
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge	711	105	Apr.-July		678
	812	104	Apr.-Sept.		779
Willamette, No. Fk. of Mid. Fk. near Oakridge	193	102	Apr.-July		189
	211	101	Apr.-Sept.		209
Willamette at Salem ^d	4,177	95	Apr.-July		4,397
	4,696	95	Apr.-Sept.		4,943

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
Clackamas River	2	38	60
McKenzie River	3	82	106
Row River	2	51	82
Santiam River	4	60	85
Willamette, Mid. Fk.	5	78	112

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average
Blue River	85.6*	4.6	10.4	--
Cottage Grove	30.0*	1.0	1.2	3.8
Cougar	155.2*	20.9	24.0	34.2
Detroit	299.9*	62.2	63.4	60.0
Dorena	70.5	1.6	8.1	15.3
Fall Creek	115.0*	6.8	12.0	21.9
Fern Ridge	94.2*	5.5	21.6	24.8
Foster	30.0*	0.0	0.2	2.1
Green Peter	270.0*	49.5	62.7	73.3
Hills Creek	200.0	12.8	46.6	38.3
Lookout Point	337.2*	20.9	63.1	64.8
Timothy Lake	61.7	59.2	59.7	49.9

*Multiple purpose reservoir--space reserved primarily for flood runoff.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

Area 9

WATER SUPPLY OUTLOOK

ROGUE, UMPQUA, WATERSHEDS

OREGON

as of

FEBRUARY 1, 1975

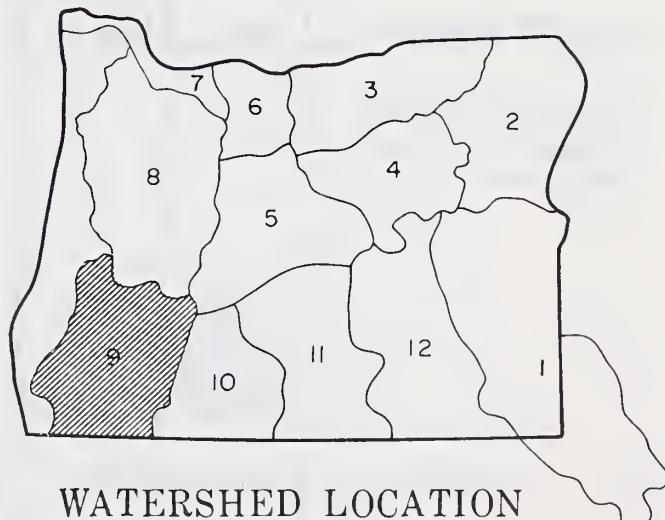
GENERAL OUTLOOK

CURRENT SNOW MEASUREMENTS INDICATE AVERAGE WATER SUPPLIES FOR THE ROGUE-UMPQUA BASIN. EXCEPTIONS ARE THE APPLEGATE AND ILLINOIS WATERSHEDS WHICH ARE FORECAST FAR BELOW AVERAGE. THE SNOWPACK ON THE ILLINOIS IS LESS THAN HALF THE NORMAL AMOUNT WHILE BUTTE CREEK IS 32% ABOVE NORMAL. PRECIPITATION FOR THE WINTER MONTHS HAS BEEN A LITTLE LESS THAN NORMAL AND THE RESERVOIR STORAGE IS NEAR AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek	Poor	Fair
Applegate River, Big	Poor	Poor
Applegate River, Little	Poor	Poor
Ashland Creek	Fair	Fair
Butte Creek, Big	Avg.	Avg.
Butte Creek, Little	Avg.	Avg.
Cow Creek	Avg.	Avg.
Deer Creek	Fair	Fair
Elk Creek	Avg.	Avg.
Emigrant Creek (abv. res.)	Fair	Fair
Evans Creek	Avg.	Avg.
Gold Hill Irrigation Dist.	Avg.	Avg.
Grants Pass Irrig. Dist.	Avg.	Avg.
Grave Creek	Avg.	Avg.
Illinois River, East Fork	Fair	Fair
Illinois River, West Fork	Fair	Fair
Jump-off-Joe Creek	Avg.	Avg.
Neil Creek	Avg.	Avg.
Red Blanket Creek	Avg.	Avg.
Rogue River	Avg.	Avg.
Sucker Creek	Avg.	Avg.
Table Rock Irrig. Dist.	Avg.	Avg.
Thompson Creek	Poor	Poor
Wagner Creek	Fair	Fair
Williams Creek	Poor	Poor



WATERSHED LOCATION

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OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year
Applegate near Copper	92	69	Apr.-Sept.	133
Clearwater above Trap Creek ^d	75	109	Apr.-Sept.	69
Fourmile Lake net Inflow ^d	4.5	104	Apr.-Sept.	4.3
Hyatt Reservoir net Inflow ^d	4.1	88	Apr.-July	4.6
Illinois River near Kerby	152	79	Apr.-July	191
	158	80	Apr.-Sept.	197
Little Butte, N. Fk. at Fish Lake nr. Lake Cr. ^d	13.4	98	Apr.-Sept.	13.7
Little Butte, S. Fk. near Lake Creek	32	114	Apr.-July	28
Rogue above Prospect	270	106	Apr.-July	256
Rogue, South Fork near Prospect ^d	68	111	Apr.-July	61
	78	109	Apr.-Sept.	72
Rogue at Raygold near Central Point	749	102	Apr.-July	735
	902	101	Apr.-Sept.	890
Rogue at Grants Pass	890	100	Apr.-Sept.	890
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls ^d	165	103	Apr.-Sept.	160

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek South Fork	100	May 30	May 27
Rogue at Raygold	1200	Aug 26	Aug 7

*Average daily cfs
forecast to flow on
this date.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Emigrant Lake	39.0	20.7	29.6	23.1*
Fish Lake	8.0	7.7	4.8	5.3
Fourmile Lake	16.1	b	7.0	8.6
Howard Prairie	60.0	40.0	57.8	36.5
Hyatt Prairie	16.1	10.9	13.6	10.5

*Average for years
of record (in base
period) after
reconstruction.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Applegate	3	60	71
Bear Creek	2	57	73
Butte Creek	4	120	132
Illinois River	3	83	44
North Umpqua	3	84	118
Rogue River	5	82	110

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
KLAMATH WATERSHEDS
OREGON
as of

FEBRUARY 1, 1975

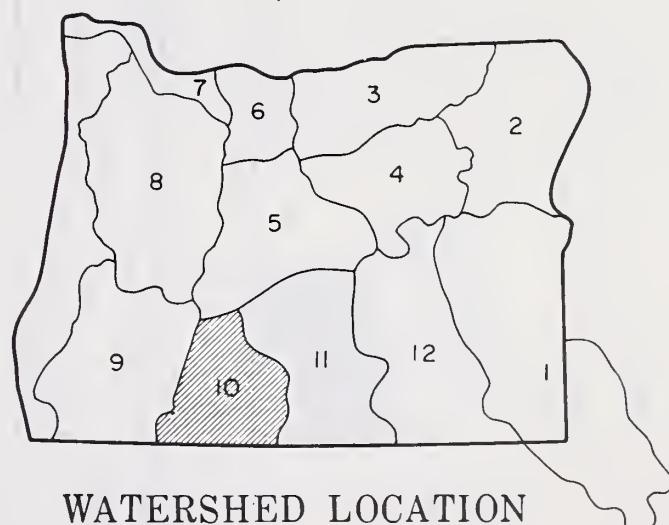
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE KLAMATH WATERSHEDS IS AVERAGE FOR USERS WITH STORED WATER SUPPLIES AND BELOW AVERAGE FOR THOSE DEPENDENT ON DIRECT DIVERSION. THE SNOWPACK IS NEAR NORMAL EXCEPT FOR THE SPRAGUE RIVER WATERSHED WHICH IS AT 74% OF THE NORMAL AMOUNT. ALTHOUGH RESERVOIR STORAGE IS NEAR NORMAL, PRECIPITATION SINCE SEPTEMBER HAS BEEN CONSIDERABLY BELOW NORMAL AND THE WATERSHED SOILS REMAIN DRY.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley	Fair	Fair
Lost River (Clear Lake)	Poor	Poor
Lost River (Gerber)	Fair	Fair
Lost River (Willow Res.)	Fair	Fair
Sprague River	Fair	Fair
Upper Klamath Lake	Avg.	Avg.
Williamson River	Fair	Fair



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
 OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
 T.A. GEORGE and J.W. HAGLUND
 SOIL CONSERVATION SERVICE
 1218 S.W. WASHINGTON ST.
 PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
Clear Lake Reservoir Inflow ^k	60	65	Feb.-July	92	
Gerber Reservoir Inflow ^k	27	63	Feb.-July	43	
Sprague near Chiloquin	254	72	Feb.-Sept.	353	
Upper Klamath Lake net Inflow ^k	173	71	Apr.-Sept.	242	
	710	79	Feb.-Sept.	899	
	456	85	Apr.-Sept.	536	
Williamson below Sprague River	480	78	Feb.-Sept.	615	
	360	87	Apr.-Sept.	414	

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average
Upper Klamath	1	58	69

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average
Clear Lake	440.2	277.7	294.5	205.6
Gerber	94.0	44.3	55.0	42.2
Upper Klamath Lake	584.0	322.7	466.3	358.9

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average
Lost River	4	128	113
Sprague River	3	82	74
Upper Klamath	7	90	98
Williamson River	3	62	98

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

Area 11

WATER SUPPLY OUTLOOK

LAKE COUNTY, GOOSE LAKE WATERSHEDS

OREGON

as of

FEBRUARY 1, 1975

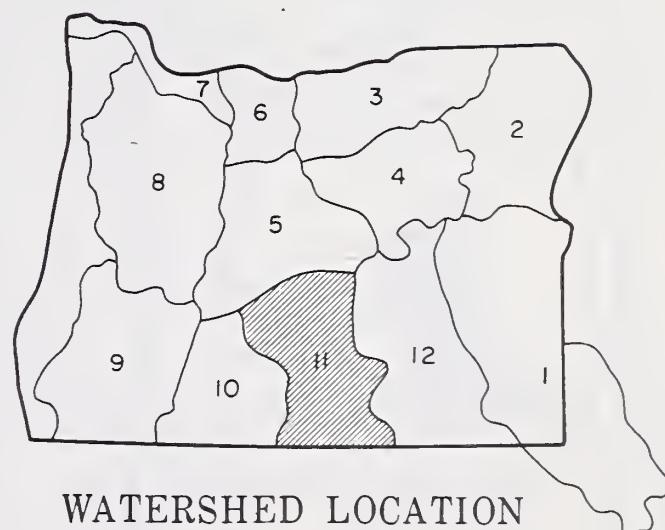
GENERAL OUTLOOK

STORED WATER SUPPLIES WILL BE NEAR AVERAGE THIS YEAR BUT WATER SHORTAGES WILL EXIST FOR USERS OF DIVERTED STREAMFLOW. THE SNOWPACK RANGES FROM 68% OF NORMAL ON DREW CREEK TO 111% OF NORMAL ON THE TWENTYMILE CREEK WATERSHED. PRECIPITATION SINCE SEPTEMBER HAS BEEN LESS THAN HALF THE NORMAL AMOUNT AND STORAGE IN DREWS RESERVOIR IS LOWER THAN THE AVERAGE FOR FEBRUARY 1.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River	Fair	Fair
Crooked Creek	Fair	Fair
Deep Creek	Fair	Fair
Dry Creek	Fair	Fair
East Side Goose Lake	Fair	Fair
Guano Lake	Fair	Fair
Honey Creek	Fair	Fair
Lakeview Water Users Assn.	Fair	Fair
Rock Creek (Hart Mountain)	Fair	Fair
Silver-Buck Creeks	Fair	Fair
Summer Lake	Fair	Fair
Thomas Creek	Fair	Fair
Twentymile Creek	Fair	Fair
Warner Lakes	Fair	Fair



WATERSHED LOCATION

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Chewaucan near Paisley	61	70	Mar.-July	87	
Deep above Adel	60	77	Mar.-July	78	
Drews Reservoir net Inflow ^d	30	75	Mar.-July	40	
Honey Creek near Plush	14.6	75	Mar-July	19.5	
Silver Creek near Silver Lake	8.9	65	Apr.-July	13.7	
Twentymile near Adel	20	77	Mar.-July	26	

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
Chewaucan, Silver Creek, Drew Creek	1	58	69
Honey, Deep, 20-Mi. Cr.	1	82	88

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Cottonwood Drews	8.7 63.0	b 29.9	5.2 47.2	2.9* 34.3

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Chewaucan River	3	85	74
Deep Creek	3	98	98
Drew Creek	3	146	68
Honey Creek	3	86	79
Silver Creek	3	132	72
Twentymile Creek	2	114	111

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
HARNEY BASIN WATERSHEDS
OREGON
as of

FEBRUARY 1, 1975

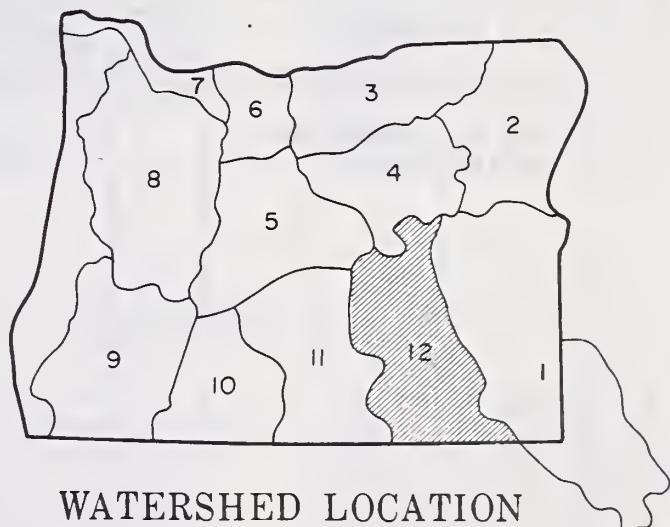
GENERAL OUTLOOK

NORTHERN HARNEY COUNTY WILL HAVE BELOW AVERAGE SUPPLIES AND IN THE SOUTHERN COUNTY AREA, WATER USERS SHOULD HAVE AVERAGE WATER SUPPLIES FOR THE COMING GROWING SEASON. THE SNOWPACK VARIES FROM NEAR AVERAGE ON SILVER CREEK TO 56% ABOVE AVERAGE ON TROUT CREEK. PRECIPITATION DURING THE FALL AND WINTER MONTHS HAS BEEN VERY LOW AND AS A RESULT, WATERSHED SOILS ARE DRY AND WILL DETRACT FROM SNOW MELT RUNOFF.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley	Avg.	Avg.
Cow Creek	Avg.	Avg.
Donner und Blitzen River	Avg.	Avg.
Mill-Coffeepot Creeks	Avg.	Avg.
Rattlesnake Creek	Avg.	Avg.
Silver Creek	Fair	Fair
Silvies River	Fair	Fair
Soldier-Prather Creek	Avg.	Avg.
Trout Creek	Avg.	Avg.
Whitehorse Creek	Avg.	Avg.



WATERSHED LOCATION

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Donner und Blitzen near Frenchglen	59	108	Mar.-July		55
	57	108	Apr.-Sept.		53
Silver near Riley	12.5	80	Apr.-July		15.6
Silvies River near Burns	79	84	Mar.-July		94
	61	82	Apr.-Sept.		74
Trout Creek near Denio	8.0	95	Mar.-July		8.4

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:		THIS YEAR'S SNOW WATER AS PERCENT OF		
		Last Year	Average ⁱ	Number of Courses Averaged.	Last Year	
Trout Cr., Donner und Blitzen River	3	78	87	Donner und Blitzen R. Silver Creek Silvies River Trout Creek	4 3 4 3	139 89 77 156

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (π) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1975

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
		Last Yr.	Ave.	

OWYHEE, MALHEUR WATERSHEDS

Antelope Ridge (Ida.)				
Battle Creek (Ida.) ^e	1/22	12	3.8	7.0 2.8
Bear Creek (Nev.)				15.0 15.1
Big Bend (Nev.)	1/27	26	8.2	7.9 5.7
Blue Mountain Springs				19.5 11.7
Blue Mtn. Springs Pillow*	1/31		8.1	17.0 --
Buck Pasture ^e	1/22	12	3.8	T 1.3
Buckskin, Lower (Nev.)	c			
Buckskin, Upper (Nev.)	c			
Bull Basine ^e (Ida.)	1/22	12	3.8	3.3 1.0 ^m
Bully Creek ^e				1.8 2.4
Call Meadow ^e	1/22	12	3.8	2.6 2.9 ^m
Columbia Basin (Nev.)	1/28	24	7.0	10.4 6.8 ^h
Cottonwood-Indian ^e	1/22	T	T	T 0.9 ^h
Crane Prairie	c			
Disaster Peak (Nev.)	c			
Eldorado Pass	1/30	14	4.2	2.0 3.1
Fawn Creek ^e (Nev.)	1/28	18	5.2	10.7 3.0 ^h
Fish Creek ^e	1/22	58	18.6	15.8 14.6 ^h
Fish Creek Pillow*	c			
Flag Prairie ^e	1/22	18	5.8	2.6 3.8 ^m
Fox Creek (Nev.)	c			
Fry Canyon (Nev.)	1/27	25	8.0	7.2 4.9
Gold Creek (Nev.)	1/27	19	5.8	5.5 3.8
Granite Peak (Nev.)	c			8.9 10.2
Hyde Pasture ^e (Ida.)	1/22	12	3.8	9.7 4.2
Jack Creek, Lower (Nev.)	c			
Jack Creek, Upper (Nev.)	1/28	24	7.2	5.7 4.7
Jack Peak (Nev.)	c			
Lake Creek R.S.				10.0 7.2
Laurel Draw (Nev.)	1/28	28	7.6	7.9 5.2
Logan Valley ^e	1/22	28	9.0	6.7 5.6
Lookout Butte ^e	1/22	T	T	0.0 0.3 ^m
Louse Canyon ^e	1/22	25	8.0	-- 2.2 ^m
Martin Creek (Nev.)	c			7.4 7.0
Merritt Mountain ^e (Nev.)	1/28	18	5.8	4.4 3.9 ^h
Midas (Nev.)				2.5 2.4 ^h
Mud Flat (Ida.)				-- 4.3 ^h
Oregon Canyon ^e	1/22	12	3.8	4.0 3.5 ^m
Quinn Ridge ^e (Nev.)	1/22	12	3.8	T 1.4 ^m
Red Canyon ^e (Ida.)	1/22	24	7.7	9.9 5.4 ^m
Rock Spring	1/29	18	4.6	5.2 4.0
Rodeo Flat (Nev.)	1/27	25	8.2	5.2 3.9
76 Creek (Nev.)	1/28	20	8.0	9.0 7.6
Silver City (Ida.)	1/22	30	9.6	12.6 11.1 ^h
Silvies ^e	1/22	22	7.0	8.0 5.6 ^h
Silvies Pillow*	c			
South Mountain #2 (Ida.)	2/6	31	10.1	14.1 8.3 ^h
Stag Mountain ^e (Nev.)	1/28	18	5.4	6.0 3.2 ^h
Stinking Water	1/30	13	3.8	0.0 2.2
Succor Creek ^e (Ida.)	1/22	13	4.2	4.0 4.2 ^m
Taylor Canyon (Nev.)	1/27	21	6.4	5.7 3.6
Toe Jam ^e (Nev.)	1/28	24	7.2	8.1 6.4 ^h
Tremewan Ranch (Nev.)	1/27	6	1.0	1.9 1.2
Triangle (Ida.) (Disc.)	1/22	6	1.9	1.6 0.9
Trout Creek ^e	1/22	24	7.7	4.0 3.9 ^m
"W" Lake ^e	1/22	28	9.0	4.0 3.4 ^m
Vaught Ranch ^e (Ida.)	1/22	17	5.4	7.0 2.8 ^m
War Eagle ^e (Ida.)	1/22	46	14.7	19.8 17.7 ^m

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
		Last Yr.	Ave.	i

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

Aneroid Lake #1	1/31	66	21.8	40.0	25.4
Aneroid Lake #2	1/31	58	19.0	35.8	25.0
Anthony Lake	1/27	66	20.2	25.2	16.9
Bald Mountain (Ore.)	1/28	60	18.0	22.1	16.6
Beaver Reservoir	1/29	34	9.7	14.7	9.0
Big Sheep ^e	1/28	51	15.3	32.4	21.0
Blue Mt. Summit	1/31	28	8.2	11.2	6.3
Bourne	1/31	35	12.4	18.1	11.0
County Line	1/30	19	4.7	4.5	4.0
Dooley Mountain	1/29	22	1.1	8.1	6.3
Eilertson Meadows	1/31	24	7.9	10.8	8.6
Eldorado Pass	1/30	14	4.2	2.0	3.1
Gold Center	1/31	30	9.7	14.2	9.3
Goodrick Lake	1/31	61	22.8	55.6	32.1
Intake House	1/29	30	8.2	11.9	8.9
Little Alps	1/27	33	8.6	13.6	9.1
Little Antone	1/27	27	7.4	6.8	6.7
Little Antone (Alt.)	1/27	29	7.8	7.6	--
Lucky Strike				9.2	10.9
Lucky Strike Pillow*				--	--
Meacham	1/29	33	9.2	13.0	6.9
Mirror Lake ^e	1/28	160	51.2	80.8	48.0
Moss Spring	1/29	68	21.8	24.2	15.0
Power Plant	1/29	22	6.7	4.6	4.7
Schneider Meadow	1/28	60	18.7	35.1	21.2
Schoolmarm	1/30	15	3.4	2.9	3.5
Standley ^e	1/28	72	21.6	32.7	19.5
Taylor Green	1/29	47	12.8	17.6	11.6
Tipton	1/31	30	9.7	13.8	7.7
Tipton Snow Pillow*	1/31		8.1	16.6	--
Tollgate	1/28	60	19.6	33.6	16.9
TV Ridge ^e	1/28	48	14.4	17.2	13.7

UMATILLA, WALLA, WILLOW, ROCK LOWER JOHN DAY WATERSHEDS

Arbuckle Mountain	1/29	23	5.5	10.6	7.6
Arbuckle Mountain Pillow*	1/29		11.7	23.0	--
Battle Mountain Summit	1/29	13	2.8	T	2.1
Blue Mountain Camp	1/28	39	13.6	23.6	11.2
Butte Creek Summit	2/3	9	1.4	--	--
Emigrant Springs	1/29	18	4.3	6.2	4.1
High Ridge Pillow*				25.4	--
Lucky Strike	2/5	29	9.0	9.2	10.9
Lucky Strike Pillow*	2/5		9.1	--	--
Meacham	1/29	33	9.2	13.0	6.9
Tollgate	1/28	60	19.6	33.6	16.9
Weston Mountain (disc.)					

BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1975

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
			Last Yr.	Ave.

UPPER JOHN DAY WATERSHEDS

Anthony Lake	1/27	66	20.2	25.2	16.9
Arbuckle Mountain	1/29	23	5.5	10.6	7.6
Arbuckle Mountain Pillow*	1/29		11.7	23.0	--
Battle Mountain Summit	1/29	13	2.8	T	2.1 ^h
Beech Creek Summit (Disc.)					
Blue Mountain Springs	1/31	34	10.8	19.5	11.7
Blue Mt. Springs Pillow	1/31		8.1	17.0	--
Blue Mountain Summit	1/31	28	8.2	11.2	6.3
Butte Creek Summit	1/31	0	0.0	--	--
Derr	1/31	21	6.9	8.9	7.0
Gold Center ^e	1/31	30	9.7	14.2	9.3
Indian Creek Butte ^e	1/22	66	21.1	20.2	16.9 ^m
Izee Summit	1/29	24	6.8	6.6	5.6
Lucky Strike	2/5	29	9.0	9.2	10.9 ^h
Lucky Strike Pillow*	2/5		9.1	--	--
Marks Creek	1/31	13	3.4	T	3.1
Ochoco Meadows	1/30	24	7.6	9.5	6.8
Olive Lake	1/27	37	11.8	15.8	13.6 ^h
Schoolmarm	1/30	15	3.4	2.9	3.5
Snow Mountain	1/27	34	7.1	12.2	10.6 ^m
Snow Mountain Pillow*	1/29		6.3	11.0	--
Starr Ridge	1/29	21	5.9	5.7	4.4
Tipton	1/31	30	9.7	13.8	7.7
Tipton Snow Pillow*	1/31		8.1	16.6	--
Williams Ranch (Disc.)					

UPPER DESCHUTES, CROOKED WATERSHEDS

Bald Peter ^j	2/3	69	23.1	37.8	-- ^h
Caldwell Ranch	1/29	26	9.0	10.2	8.0 ^h
Cascade Summit	1/30	66	23.8	28.2	19.2
Chemult	1/31	22	6.0	8.9	8.1
Chemult Alternate	1/31	24	7.7	10.2	--
Derr	1/31	21	6.9	8.9	7.0
Hogg Pass	1/30	64	25.7	40.0	27.5
Hungry Flat	1/29	18	6.1	3.4	4.9
Irish-Taylor Pillow**	1/29		32.1	40.0	25.4
Lionshead ^j	2/3	21	6.7	11.4	--
Marks Creek	1/31	13	3.4	T	3.1
New Crescent Lake	1/28	31	11.0	15.5	10.2
New Dutchman Flat #2	1/31	90	37.8	50.3	32.9
Ochoco Meadows	1/30	24	7.6	9.5	6.8
Racing Creek ^j	2/3	33	10.4	17.6	--
Snow Mountain	1/27	34	7.1	12.2	10.6
Snow Mountain Pillow**	1/29		6.3	11.0	--
Summit Lake	1/28	83	29.2	42.4	27.2
Summit Lake Pillow	1/29		29.1	36.7	--
Tamarack	1/29	19	5.8	3.6	4.1
Tangent	1/29	42	17.5	27.0	16.0
Three Creek Butte	1/30	22	8.6	10.3	8.5
Three Creek Meadow	1/30	34	13.3	17.8	12.7
Three Creek Mdw. Pillow**				23.5	--
Waldo Lake	1/29	69	24.6	30.6	20.0
Whitewater Meadow ^e	2/3	8	2.6	3.1	--
Will. Pass(See Summit Lake)					
Will. Pass Pillow(" ")					

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
		Last Yr.	Ave.	

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

Brooks Meadows	c				
Clear Lake	1/30	14	4.7	10.8	7.3
Clear Lake (Experimental)	1/30	31	10.4	18.0	10.9
Cooper Spur	1/25	22	6.7	14.5	9.8 ^h
Greenpoint	1/19	17	8.2	18.2	11.5
Knebal Springs	c				
Mt. Hood Test Site**	1/27	112	40.7	67.7	41.3
Parkdale (Discontinued)					
Red Hill	1/28	56	21.1	39.0	25.2
Still Creek	1/29	41	15.0	26.2	15.6
Still Creek Alt. #2				28.2	--
Switchback	1/18	18	7.1	19.4	10.1 ^h
Tilly Jane				45.4	25.7
Ulrich Ranch Junction	c				
Umbrella Falls	1/23	112	48.8	--	--
Upper Valley (Disc.)					

WILLAMETTE WATERSHEDS

Cascade Summit	1/30	66	23.8	28.2	19.2
Champion	1/29	49	17.2	34.3	17.8 ^h
Clackamas Lake	c				
Clear Lake	1/30	14	4.7	10.8	7.3
Clear Lake (Expt.)	1/30	31	10.4	18.0	10.9
Dead Horse Grade	1/30	33	11.4	9.4	11.2
Detroit (City)	1/30	T	T	0.0	1.8
Detroit Dam	1/30	0	0.0	0.0	0.8
Golden Curry Creek	1/29	4	0.4	T	3.7 ^m
Hogg Pass	1/30	64	25.7	40.0	27.5
Lake Harriet	1/30	T	T	--	2.0 ^m
Laurel Mountain	1/30	9	1.4	0.0	--
Layng Creek	1/29	1	0.1	0.0	0.2
Lookout Point Dam	1/30	2	0.2	0.0	0.3
Lost Creek Ranch	1/30	6	2.1	0.0	3.9
Lund Park	1/29	1	0.1	0.0	0.4 ^h
Marion Forks	1/31	13	3.4	13.9	9.1 ^h
Marys Peak	1/30	11	1.7	1.6	7.5 ^m
McCredie Springs	1/30	2	0.2	0.0	0.5
McKenzie	1/30	78	28.1	49.5	29.2
McKenzie Bridge	1/29	0	0.0	0.0	0.7
Mill City	1/30	0	0.0	0.0	0.5
Mt. Hood Test Site**	1/27	112	40.7	67.7	41.3
Oakridge	1/30	1	0.1	0.0	0.2
Peavine Ridge Pillow**	1/30	6.1	19.6	12.3 ^h	
Railraod Overpass	1/30	8	1.2	0.2	1.8
Saddle Mountain Pillow**	1/30	-	0.7	3.0	--
Salt Creek Falls	1/30	30	9.3	12.1	10.6
Santaim Junction	1/30	46	15.9	27.2	16.7
Seine Creek Pillow**	1/30	0	0.0	0.0	--
Still Creek	1/29	41	15.0	26.2	15.6
Still Creek Alt.#2(Disc.)					
Timothy Lake	1/30	23	6.8	19.5	9.8 ^m
Summit Lake	1/28	83	29.2	42.4	27.2
Summit Lake Pillow	1/29		29.1	36.7	--
Valsetz Summit	1/30	5	1.0	0.0	--
Vida	1/29	0	0.0	0.0	0.5 ^m
Waldo Lake	1/29	69	24.6	30.6	20.0
Weaver Creek	1/29	2	0.2	0.0	0.6
White Branch Slide	1/30	26	9.1	0.1	5.6
Whitewater Bridge	1/30	6	1.6	2.1	5.0
Will. Pass (See Summit Lake)					
Will.Pass Pillow(" ")					

BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1975

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	Last Yr.
ROGUE, UMPQUA WATERSHEDS					
Althouse	1/29	4	0.4	1.6	6.2 ^h
Annie Spring	1/30	75	28.4	45.5	28.7
Beaver Creek Dam	1/30	36	13.3	11.1	9.6 ^h
Big Red Mountain	1/29	49	14.6	30.1	20.7
Billie Creek Divide	1/27	56	18.4	18.0	14.7 ^h
Caliban	1/30	58	15.7	41.5	24.7 ^h
Caliban (Alternate)	1/30	62	17.8	42.6	--
Cahmpion	1/29	49	17.2	34.3	17.8 ^h
Cold Springs Camp				32.2	22.8 ^h
Cold Spgs. Camp Pillow**	1/26		20.8	34.2	--
Deadwood Junction	1/30	28	9.6	4.2	6.5 ^h
Diamond-Crater Sum.	1/29	66	23.0	32.2	19.5 ^h
Diamond Lake	1/29	48	16.0	21.4	13.7
Fish Lake	1/27	41	13.3	10.1	9.4 ^h
Fourmile Lake	1/27	34	13.8	--	15.8 ^h
Grayback Peak	1/28	39	12.4	14.1	19.2
Howard Prairie Reservoir	1/30	23	7.8	5.7	6.5 ^h
Hyatt Prairie	1/30	22	7.6	4.9	6.0
King Mountain #1	1/29	18	4.5	2.0	--
King Mountain #2	1/29	12	2.8	0.5	--
King Mountain #3	1/29	3	0.5	0.0	1.0 ^m
King Mountain #4	1/29	1	0.2	0.0	0.1 ^m
King Mountain #5	1/29	T	0.0	0.1	^m
King Mountain #6	1/29	0	0.0	0.0	^m
Little Red Mountain	1/29	45	13.7	23.5	18.1 ^h
Mt. Ashland Switchback	1/30	55	17.3	40.0	24.4 ^h
Mule Creek	1/29	4	1.0	0.0	--
North Umpqua	1/30	42	16.0	15.4	10.3
Page Mountain	1/29	3	0.3	0.0	4.0
Park Headquarters	1/30	104	40.3	66.2	38.8 ^m
Red Butte #1	1/28	24	6.1	10.6	10.0 ^m
Red Butte #2	1/28	20	5.7	1.3	6.7 ^m
Red Butte #3	1/28	9	1.2	0.8	4.1 ^m
Red Butte #4	1/28	2	0.2	T	2.9 ^m
Red Butte #5	1/28	2	0.2	0.0	0.6 ^m
Red Butte #6	1/28	T	0.0	T	^m
Seven Lakes (Disc.)					
Seven Mile	1/28	66	22.3	27.9	--
Silver Burn	1/30	36	13.7	9.5	9.9
Siskiyou Summit	1/28	18	5.6	0.0	7.0 ^h
Ski Bowl Road	1/30	51	15.0	27.6	20.5
South Fork Canal	1/30	16	3.9	0.0	3.2
Trap Creek	1/30	34	13.0	12.2	8.8 ^h
Whaleback	1/31	68	21.0	29.4	20.6

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	Last Yr.
ROGUE, UMPQUA WATERSHEDS					
Annie Spring	1/30	75	28.4	45.5	28.7 ^h
Billie Creek Divide	1/27	56	18.4	18.0	14.7 ^h
Chemult	1/31	22	6.0	8.9	8.1
Chemult (Alternate)	1/31	24	7.7	10.2	--
Chiloquin ^e (PP&L)	1/31	6	1.5	--	1.8 ^m
Cold Springs Camp					32.2
Cold Spgs. Camp Pillow**	1/26			20.8	34.2
Crazyman Flat	1/28	18	5.2	6.5	7.4
Crowder Flat (Calif.)	1/28	11	3.1	0.0	3.2
Crystal (PP&L)	1/30	20	7.5	3.4	6.8
Diamond-Crater Sum.	1/29	66	23.0	32.2	19.5 ^h
Diamond Lake Junction(97)	1/29	17	5.2	3.9	4.7
Dog Hollow ^e	1/28	4	1.1	0.0	1.2
Finley Corrals ^e	1/28	36	11.5		
Fort Klamath (PP&L) ^e	1/31	12	4.2	0.0	3.6
Fourmile Lake	1/27	34	13.8	--	15.8 ^h
Gerber	2/4	20	4.7	1.0	2.5
Harriman (PP&L)	1/31	19	6.6	1.0	3.5 ^m
Howard Prairie	1/30	23	7.8	5.7	6.5
Hyatt Prairie Reservoir	1/30	22	7.6	4.9	6.0
Kirk (PP&L)					--
Lake of the Woods (disc.)					6.5
Park Headquarters	1/30	104	40.3	66.2	38.8
Quartz Mountain	1/29	18	4.6	0.3	5.4
Seven Lakes #2 (Disc.)					
Seven Mile	1/28	66	22.3	27.9	--
State Line ^e (Calif)	1/28	18	5.2	3.6	6.9
Strawberry					4.7
Strawberry ^e	1/28	10	2.8	--	6.1 ^h
Summer Rim ^e	1/28	22	6.6	13.7	10.3
Summer Rim Pillow*					
Sycan Flat ^e	1/28	15	4.2	3.6	6.3
Taylor Butte	1/30	11	3.4	3.1	4.1
ROGUE, UMPQUA WATERSHEDS					
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Adin Mountain (Calif.)	1/21	27	7.6	11.2	8.9
Bald Mountain (Nev.)	c				
Bear Flat Meadow	1/28	18	5.2	6.1	6.9
Camas Creek	1/29	18	5.2	7.1	7.6
Cedar Pass (Calif.)	1/27	40	13.5	13.0	10.6
Colvin Creek ^e	1/28	10	2.8	2.9	4.2 ^m
Cox Flat	1/28	21	6.1	1.0	5.8
Crowder Flat (Calif.)	1/28	11	3.1	0.0	3.2
Dismal Swamp (Calif.)	1/28	42	13.4	12.6	10.1
Finley Corals	1/28	36	11.5	10.1	11.8
Hart Mountain	1/28	5	1.2	0.6	1.0
Little Bally Mtn. (Nev.)	1/28	12	3.1	2.6	2.0 ^m
Mt. Bidwell (Calif.)	c				
North Star (Calif.)	c				
Patton Meadows	1/28	29	8.7	13.1	12.5 ^m
Quartz Mountain	1/29	18	4.6	0.3	5.4
Sherman Valley ^e	1/28	24	7.2	7.2	7.7
Silver Creek	1/25	7	1.8	0.4	2.7
State Line (Calif.)	1/28	18	5.2	3.6	6.9
Strawberry					4.7
Strawberry ^e	1/28	10	2.8	--	6.1 ^h
Summer Rim ^e	1/28	22	6.6	13.7	10.3
Summer Rim Pillow*					
Sycan Flat ^e	1/28	15	4.2	3.6	6.3
Willow Creek	1/28	4	1.0	0.0	2.9
ROGUE, UMPQUA WATERSHEDS					

BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1975

SNOW

DRAINAGE BASIN and or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
		Last Yr.	Ave	i

HARNEY BASIN WATERSHEDS

Blue Mountain Springs	1/31	34	10.8	19.5	11.7
Blue Mtn. Springs Pillow*	1/31		8.1	17.0	--
Buck Pasture	1/22	12	3.8	T	1.3 ^m
Buckskin Lake	1/22	0	0.0	0.0	0.9 ^m
Call Meadows	1/22	12	3.8	2.6	2.9 ^m
Delintment Lake	1/28	22	6.3	7.4	5.3 ^h
Denio Creek	1/22	3	1.0	T	0.6 ^m
Disaster Peak (Nev.)		c			
Emigrant Butte	1/29	15	4.6	0.6	3.2 ^h
Fish Creek ^e	1/22	58	18.6	15.8	14.6 ^h
Fish Creek Pillow*		c			
Hart Mountain	1/28	5	1.2	0.6	1.0
Idlewild Camp	1/29	18	5.2	5.4	4.2
Idlewild Camp Alternate	1/29	14	4.7	4.3	--
Izee Summit	1/29	24	6.8	6.6	5.6
Lake Creek R.S.	1/31	28	9.0	10.0	7.2
Oregon Canyon	1/22	12	3.8	4.0	3.5 ^m
Rock Spring	1/29	18	4.6	5.2	4.0
Silvies ^e	1/22	22	7.0	8.0	5.6 ^m
Silvies Pillow*		c			
Snow Mountain	1/27	34	7.1	12.2	10.6 ^m
Snow Mountain Pillow*	1/29		6.3	11.0	--
Starr Ridge	1/29	21	5.9	5.7	4.4
Stinking Water	1/30	13	3.8	0.0	2.2 ^m
Trout Creek	1/22	24	7.7	4.0	3.9 ^m
"V" Lake ^e	1/22	28	9.0	4.0	3.4 ^m

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
	Last Yr.	Ave	i	j

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 2

FEBRUARY 1, 1975

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	c	--	--	--
Big Bend (Nev.)	6700	48	16.7	1/27	12.8	14.4	14.6
Blue Mountain Spring	5900	42	16.9	1/31	6.9	11.8	9.2 ^m
Mud Flat (Ida.)	5500	48	12.8	b	--	--	10.9 ^m
Rodeo Flat (Nev.)	6800	42	11.0	1/27	4.6	7.7	8.9
Taylor Canyon (Nev.)	6200	48	15.1	1/27	7.4	10.9	11.9
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	b		13.5	10.1
Dooley Mountain	5430	36	9.2	1/29	2.4	4.4	3.7 ^m
Emigrant Springs (Rev.)	3925	48	30.3	1/29	20.2	20.4	15.9 ^m
Ladd Summit	3730	48	18.9	1/30	9.6	13.7	10.4 ^m
Moss Springs	5850	36	25.8	1/29	12.1	15.2	14.9 ^m
Tollgate	5070	48	23.6	1/30	16.6	16.5	19.0 ^m
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	1/29	13.7	13.7	12.6 ^m
Emigrant Springs (Rev.)	3925	48	30.3	1/29	20.2	20.4	15.9 ^m
Tollgate	5070	48	23.6	1/30	16.6	16.5	19.0 ^m
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	1/29	13.7	13.7	12.6 ^m
Blue Mountain Spring	5900	42	16.9	1/31	6.9	11.8	9.2 ^m
Blue Mountain Summit	5100	36	16.8	b		13.5	10.1 ^m
Derr	5670	24	9.0	1/31	7.2	8.9	8.1 ^m
Marks Creek	4540	36	14.1	1/30	8.8	13.4	11.0 ^m
Snow Mountain	6300	48	16.7	1/27	11.4	14.8	13.6 ^m
Starr Ridge	5150	36	10.6	1/29	8.9	10.6	9.3 ^m
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	1/31	7.2	8.9	8.1 ^m
Marks Creek	4540	36	14.1	1/30	8.8	13.4	11.0 ^m
Snow Mountain	6300	48	16.7	1/27	11.4	14.8	13.6 ^m
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	1/29	5.9	10.1	8.5 ^m
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	1/29	10.7	13.0	12.1 ^m
Quartz Mountain	5230	48	15.3	1/29	5.9	10.1	8.5 ^m
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	1/31	6.9	11.8	9.2 ^m
Silvies	6900	48	16.4	c	--	--	--
Snow Mountain	6300	48	16.7	1/27	11.4	14.8	13.6 ^m
Starr Ridge	5150	36	10.6	1/29	8.9	10.6	9.3 ^m
Willow-Bald	5000	24	6.6	1/29	4.7	6.6	5.7

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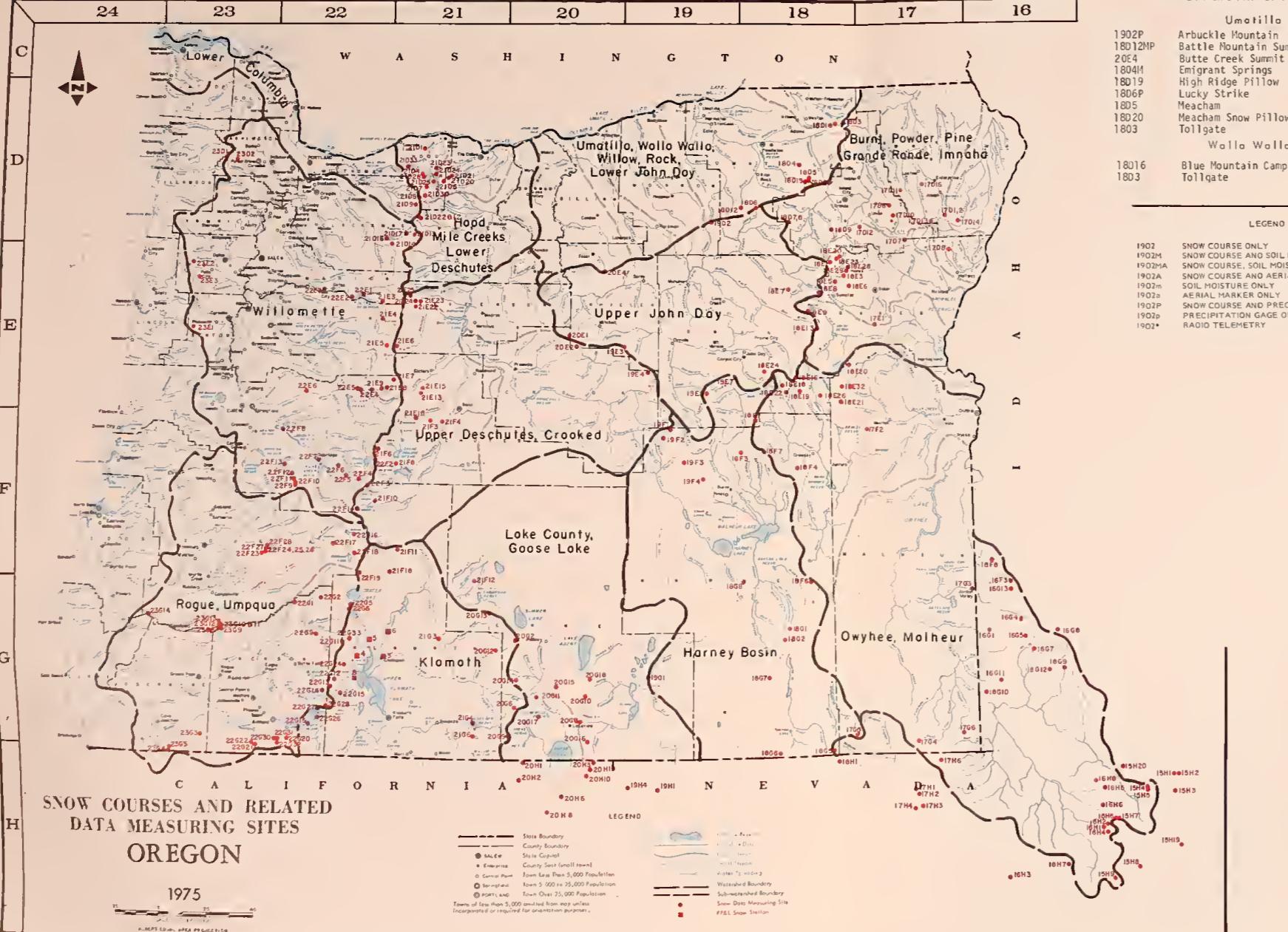
BASIC DATA SUPPLEMENT 3

FEBRUARY 1, 1975

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average ⁱ
Camas Creek (Lake County)	5825	From 12/30 to 1/29	2.60		
County Line (Umatilla County--Starkey Hdqs.)	4800	From 12/30 to 1/30	4.20		
Derr (Wheeler County)	5800	From 10/29 to 1/31	8.60		
Fish Lake	4865	From 12/31 to 1/27	0.55		
Marks Creek (Crook-Wheeler Cos.)	4540	From 12/31 to 1/31	3.00		
Quartz Mt. Summit (Lake County)	6300	From 12/30 to 1/29	2.28		
Silver Creek (Lake County)	4900	From 12/27 to 1/25	4.40		

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



Map and Index to OREGON SNOW COURSES



The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon State University
Oregon State Engineer and Corps of State Watermasters
Oregon State Highway Engineers
Soil and Water Conservation Districts of Oregon

COUNTY

Douglas County Water Resources Survey

FEDERAL

Department of Agriculture
Cooperative Extension Service
Forest Service
Soil Conservation Service
Department of Commerce
NOAA, National Weather Service
Department of the Interior
Bonneville Power Administration
Bureau of Land Management
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
National Park Service
Department of National Defense
Corps of Army Engineers

PUBLIC UTILITIES

Pacific Power and Light Company
Portland General Electric Company
California-Pacific Utilities Company

MUNICIPALITIES

City of Baker
City of La Grande
City of The Dalles
City of Walla Walla

IRRIGATION DISTRICTS

Arnold Irrigation District
Associated Ditch Companies
Burnt River Irrigation District
Central Oregon Irrigation District
East Fork Irrigation District
Grants Pass Irrigation District
Hood River Irrigation District
Jordan Valley Irrigation District
Juniper Flat Irrigation District
Lakeview Water Users, Incorporated
Medford Irrigation District
Middle Fork Irrigation District
North Board of Control - Owyhee Project
North Unit Irrigation District
Ochoco Irrigation District
Rogue River Valley Irrigation District
South Board of Control - Owyhee Project
Squaw Creek Irrigation District
Talent Irrigation District
Tumalo Project
Vale-Oregon Irrigation District
Warmsprings Irrigation District

PRIVATE ORGANIZATIONS

The Crag Rats, Hood River, Oregon



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